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Protein Q8YSA0_ANASP

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General information about the UniProt/TrEMBL entry	ne UniProt/TrEMBL entry
Entry name	Q8YSA0_ANASP
Primary accession number	Q8YSA0
Entered in TrEMBL	Release 20, 01-MAR-2002
Sequence was last modified	Release 20, 01-MAR-2002
Annotations were last modified	Release 26, 01-MAR-2004
Protein description	
Protein name	Beta-carotene ketolase
Origin of the protein	
Gene	Locus names alr3189
From	Anabaena sp. (strain PCC 7120)[TaxID:103690]
Taxonomy	Bacteria; Cyanobacteria; Nostocales; Nostocaceae; Nostoc.
References	
[1]	NUCLEOTIDE SEQUENCE. MEDLINE=21595285; PubMed=11759840; [NCBI, ExPASy, EBI, Israel, Japan] Kaneko T., Nakamura Y., Wolk C.P., Kuritz T., Sasamoto S., ▼ "Complete genomic sequence of the filamentous nitrogen-fixing cyanobacterium Anabaena sp. strain PCC 7120."; DNA Res. 8:205-213(2001).

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Cross-references				
EMBL	AP003592; BA	AP003592; BAB74888.1; -; Genomic_DNA.[EMBL/ GenBank/ DDBJ] [CoDingSequence]	/ DDBJ] [COD	ingSequence]
PIR	AF2204; AF2204	04.		
05	Cellular component	membrane	60:0016020	inferred from electronic annotation
	Molecular function	oxidoreductase activity, acting on paired donors, with oxidation of a pair of donors resulting in the reduction of molecular oxygen to two molecules of water	GO:0016717	inferred from electronic annotation
	Molecular function	oxidoreductase activity, acting on single donors with incorporation of molecular oxygen	60:0016701	inferred from electronic annotation
	Biological process	carotene metabolism	GO:0016119	inferred from electronic annotation
	Biological process	carotenoid biosynthesis	GO:0016117	inferred from electronic annotation
	Biological process	fatty acid desaturation	GO:0006636	inferred from electronic annotation
		[QuickGO]		
InterPro	IPR011393; Carotene_keto IPR005804; Fa_desat. IPR010257; FA_desat_sub. Graphical view of the doma	IPR011393; Carotene_ketolas. IPR005804; Fa_desat. IPR010257; FA_desat_sub. Graphical view of the domain structure		
Pfam	PF00487; FA_ Pfam graphica	PF00487; FA_desaturase; 1. Pfam graphical view of domain structure		
PIRSF	PIRSF027840;	PIRSF027840; Carotene_ketolas; 1.	•	
ProDom	PD001081; FA [Domain struc	PD001081; FA_desat_sub; 1. [Domain structure/ List of seq. sharing at least 1 domain]		
Keywords				
	Complete proteome	eome		:
Sequence information				
Length	258 AA			
Molecular weight	30313 Da			

[Q8YSA0_ANASP] Basic UniProtKB Entry Viewer - UniProt [the Universal Protein Resource]

CRC64	8F8C8E4ECF8EF61B	[This is a checksum on the seguence]	he seauence]		
	+	+ + + + + + + + + + + + + + + + + + + +			
MVQCQPSSLH SEKLVLLSST IRDDKNINKG IFIACFILFL WAISLILLLS	KNINKG IFIACFILFL WA	ISLILLES 50			
IDTSIIHKSL LGIAMLWQTF LYTGLFITAH DAMHGVVYPK NPRINNFIGK 100	LFITAH DAMHGVVYPK NE	PRINNFIGK 100			
LTLILYGLLP YKDLLKKHWL HHGHPGTDLD PDYYNGHPQN FFLWYLHFMK 150	PGTDLD PDYYNGHPQN FF	гмугнғмк 150			
SYWRWTQIFG LVMIFHGLKN LVHIPENNLI IFWMIPSILS SVQLFYFGTF 200	PENNLI IFWMIPSILS SV	QLFYFGTF 200			
LPHKKLEGGY INPHCARSIP LPLFWSFVTC YHFGYHKEHH EYPQLPWWKL 250	ИЅFVTC ҮНFGҮНКЕНН Е Ү	РОГРИМКЕ 250			
PEAHKISL		258			
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